#### PATENT COOPERATION TREATY

### **PCT**

REC'D 1 9 AUG 2005

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT

(PCT Article 36 and Rule 70)

Applicant	or agentic file reference					
Applicant's or agent's file reference WO 37442 International application No. PCT/IB 03/01787		FOR FURTHER ACTION	Preliminary Examination Report (Form PCT/IPEA/416)			
		International filing date (day/mo	08.05.2003			
F02B37/	al Patent Classification (IPC) or 22	both national classification and IPC				
	VELL INTERNATIONAL I	NC.				
1. This Auth	international preliminary ex ority and is transmitted to th	amination report has been prepare e applicant according to Article	ared by this International Preliminary Examining 36.			
2. This	2. This REPORT consists of a total of 4 sheets, including this cover sheet.					
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
	These annexes consist of a total of 2 sheets.					
3. This	report contains Indications re	elating to the following items:				
,	K***					
•	<ul><li>☑ Basis of the opinion</li><li>☐ Priority</li></ul>	•	•			
		opinion with many 11				
	Lack of unity of invent	opinion with regard to novelty, i	nventive step and industrial applicability			
	Reasoned statement		d to novelty, inventive step or industrial applicability;			
VI	Certain documents cit					
VII	☐ Certain defects in the	international application				
VIII		on the international application				
Date of submission of the demand			completion of this report			
16.11.2004		22.08.	2005			
lame and mailing address of the International reliminary examining authority:			ed Officer			
European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswljk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016			s, M ne No. +31 70 340-3406			

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB 03/01787

I. Basis of	the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages				
	1-9		as originally filed			
	Claims, Numbers					
	1-7	•	received on 09.06.2005 with letter of 09.06.2005			
	Dra	wings, Sheets				
	1/6-	6/6	as originally filed			
2.	Witi lang	ith regard to the <b>language</b> , all the elements marked above were available or furnished to this Authority in the nguage in which the international application was filed, unless otherwise indicated under this item.				
	The	ese elements were av	ailable or furnished to this Authority in the following language: , which is:			
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).			
		the language of pub	lication of the international application (under Rule 48.3(b)).			
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under .3).			
3.	Witl inte	n regard to any <b>nucl</b> e rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:			
		contained in the inte	ernational application in written form.			
		filed together with th	ne international application in computer readable form.			
		furnished subsequently to this Authority in written form.				
		furnished subsequently to this Authority in computer readable form.				
		The statement that t in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.			
		The statement that t listing has been furn	the information recorded in computer readable form is identical to the written sequence ished.			
4.	The	amendments have r	esulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			

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5.- This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims
No: Claims
Inventive step (IS)

Yes: Claims
1-7
No: Claims
Industrial applicability (IA)

Yes: Claims
1-7

No: Claims

2. Citations and explanations

see separate sheet

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1: US 6 073 447 A (Kawakami)

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and shows (see fig. 2 - the references in parentheses applying to this document): A control valve comprising a movable flap (92) for a controlled closing or opening of a fluid passage (66) wherein in the closed state the upstream side of said flap (side that looks towards passage (66) when this passage is closed) extends in a plane being inclined to the extension direction of the passage (66).

The subject-matter of claim 1 differs from this known control valve in that said flap extends substantially in a plane separating said passage in an inlet part and an outlet part being coupled to each other.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as a control valve which is installed in and easier way than the valve of D1.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

The valve is installed on the separation plane of two parts which are coupled to each other. In this way the installation is easier, since the plane of separation is easily accessible especially when the plane of separation is inclined to the extention direction of a passage.

There is no document sited which would give a hint to the skilled person to install the movable flap on a plane which is inclined to the extention direction of a passage and at the same time separating two parts coupled together in order to arrive to the valve of D1.

Claims 2-7 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.